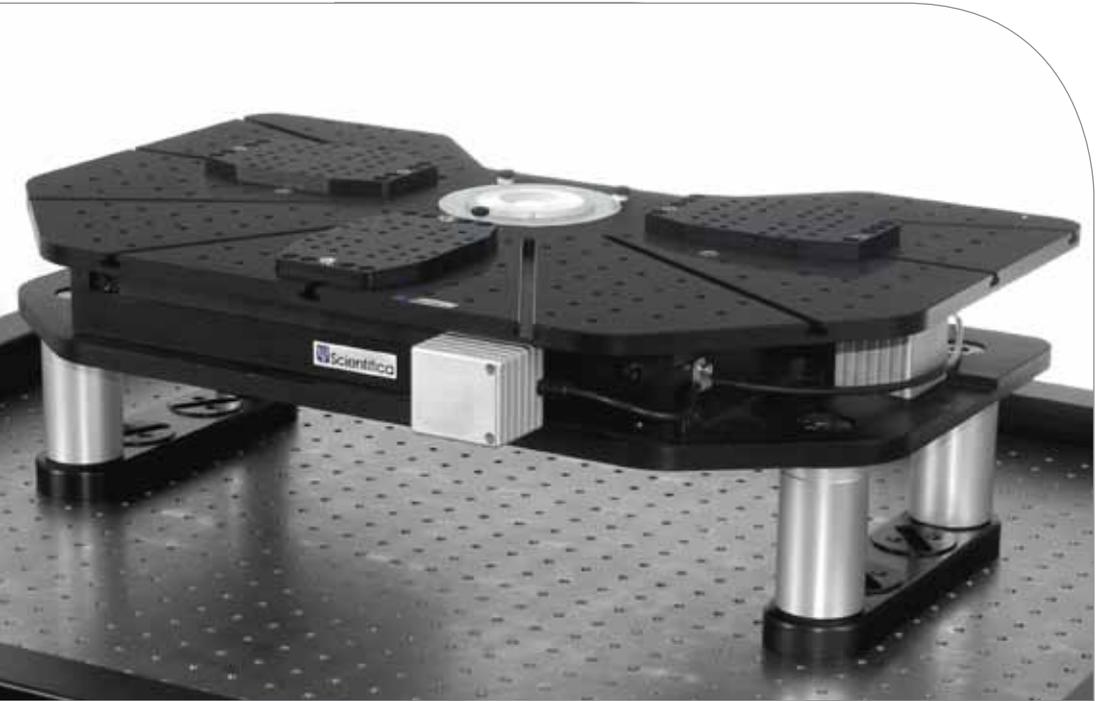
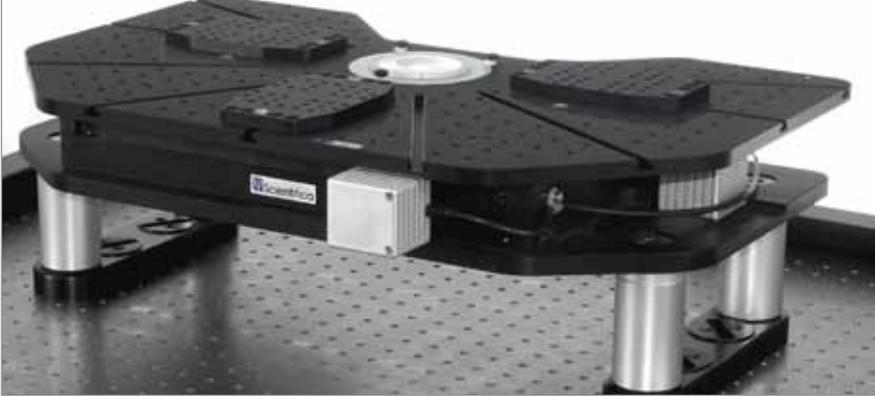


Motorised Movable Top Plate (MMTP)



Motorised Movable Top Plate

Our Motorised Movable Top Plate (MMTP) is an exceptionally well-engineered and easy to operate translation platform, ideal for patch clamp experiments and cell imaging applications. By using our MMTP, you can search a whole sample while the microscope remains fixed. This is particularly valuable when microscope movement is constrained by free spaced launched lasers used in confocal or multiphoton imaging.



Stable motorised movement

This is made possible by the use of high grade crossed-roller bearings. Our superior design makes translating to a site of interest easier and minimalises patch dislodgement

The MMTP features 25 mm of movement in X and Y axes, with an impressive 20 nm resolution. The ultra-low electrical noise means that you won't need to turn off the system while recording sensitive signals.

Adjustable and compatible

The height adjustable legs makes our MMTP compatible with Olympus, Nikon, Zeiss and Leica upright microscopes. In addition it is perfectly coupled with our SliceScope upright microscope.

Our MMTP will integrate perfectly with your current setup and its flexibility ensures it meets all future needs too. A motorised Z-focus module can be applied to select microscope models and integrates with the MMTP's control hardware.

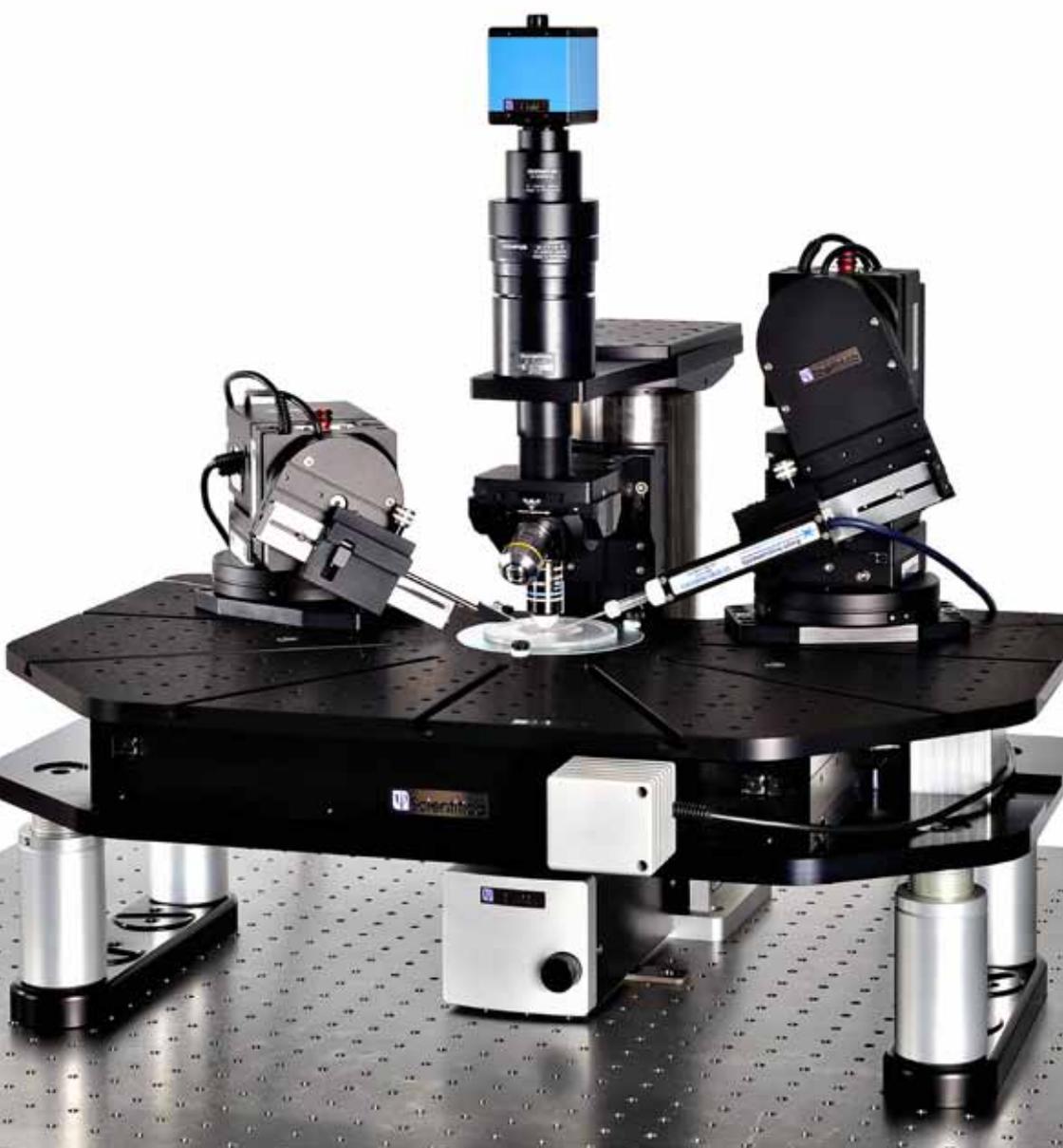
Large surface area

The large surface area of the MMTP has been designed to be extremely versatile, allowing plenty of room for multiple manipulators for multi-site recordings.

Record memory positions

You can store up to 50 memory positions via the user interface, using one button to define a position for returning to later. An unlimited number of positions can also be stored and revisited through our LinLab software.

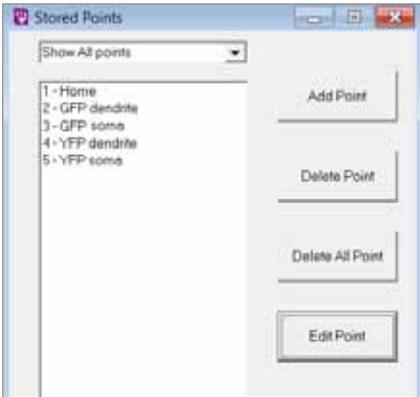
The MMTP, shown as a component in the SliceScope Pro 3000 microscopy system



Benefits

Motorised Movable Top Plate

A key component in your electrophysiology setup; a good mounting system will ensure complete stability during recordings. Our solution is intuitive and easy to operate.



Unlimited memory positions!

A benefit of using our MMTP is that up to 50 memory positions can be stored and returned to later, via the control interface. In addition, an unlimited number of memory positions can be set in our LinLab software. This ability to swiftly return to areas marked as being of interest improves workflow efficiency and can also assist in semi-automating processes.

The unique 'Follow' function in the LinLab software is also a significant time saver. It enables you to virtually 'link' multiple manipulators to the movement of the MMTP and the focus of your microscope. This means your pipettes can be kept in your field of view when required, and 'released' at interest areas once patches or other recording/stimulating procedures have been established.

Large, durable top plate

With a surface engineered with durable anodised aluminium, the MMTP is built to last. Designed to withstand chemical spills and provides many years of smooth operation.

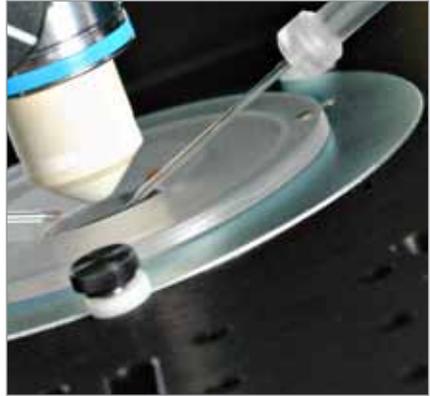
Our MMTP is also large enough to accommodate the most demanding equipment configurations. With a direct link to your anti-vibration table via sturdy aluminium legs, utmost stability is assured creating ideal patching conditions.



Easy height adjustment

Central to the success of the MMTP are the sturdy aluminium legs. These are height adjustable so that the top plate surface can be raised from between 191 and 237 mm above the table surface. This allows the MMTP to be easily fitted around your chosen microscope at the optimum focal height.

In order to allow complete freedom of your rig on your table surface, the MMTP features slotted rotatable inserts (on its feet) for simple and flexible attachment anywhere on your table top.



Convenient operation

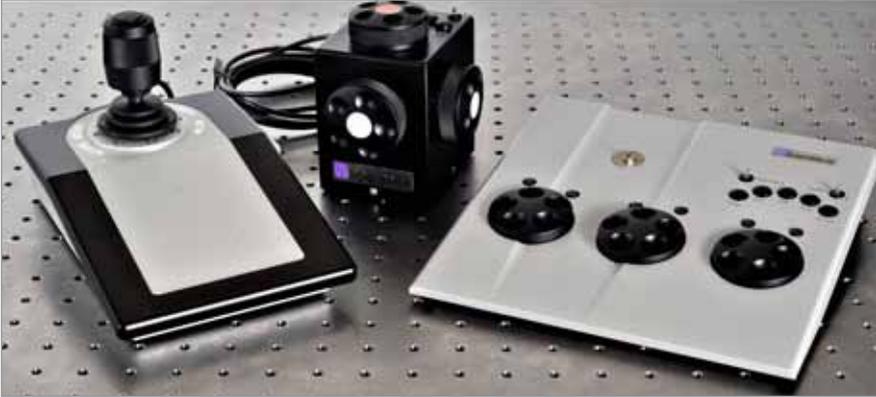
Developed and tested in leading Electrophysiology laboratories, our MMTP has been carefully developed to make it simple to use.

The unique mounting carriages can be used to carry micromanipulators, which then conveniently slide and secure in place around the sample plate. Alternatively, equipment can be bolted down to the top plate surface using a M6 or 1/4-20 tapped hole grid.

To simplify your setup, the MMTP features a sample chamber integrated into the top plate and is supplied with a ferromagnetic outer ring for easy placement of perfusion equipment. The SlicePlatform also accepts standard 108 mm and 110 mm chamber adaptors.

Control Options

In line with our ambition to make our equipment as accessible and easy to use as possible, we offer a series of control options that can be configured with the entire range of manipulation and translation products.



Joystick, Control Cube and PatchPad (left to right)

Control Cube

Compact and comfortable to use, this popular wheeled design gives fingertip control and excellent functionality.

An array of buttons and switches gives fast access to a variety of functions; activating the "approach" axis, adjusting speed, setting and recalling memory positions and more.

The three wheels, each corresponding to an axis of movement, can be converted by the user between left and right-handed use and customised to your preferences.

Joystick

An alternative is our joystick. It's ergonomic design offers intuitive directional control in all three axes. With movement speed proportional to the amount of deflection applied, a speed change button enables the user to customise the device to their preference.

This functionality enables the user to comfortably and naturally use the joystick whilst concentrating entirely on the experiment at hand.

The PatchPad

With its flat panel design, each axis of movement can be allocated a wheel on the panel, adding flexibility of control to suit your spatial and personal requirements.

Additionally a touchscreen variant of the PatchPad can be used to switch between more than two devices.

The PatchPad features the same easy access buttons and switches as the Control Cube; allowing you to store memory positions, activate the "approach" axis and adjust speed.

LinLab software

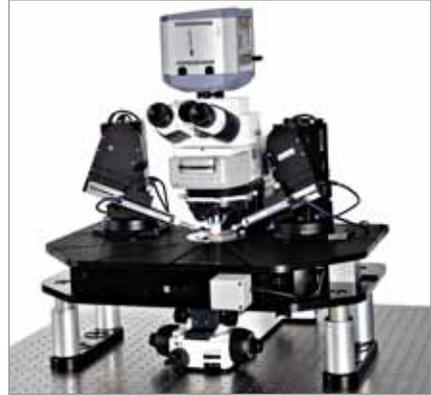
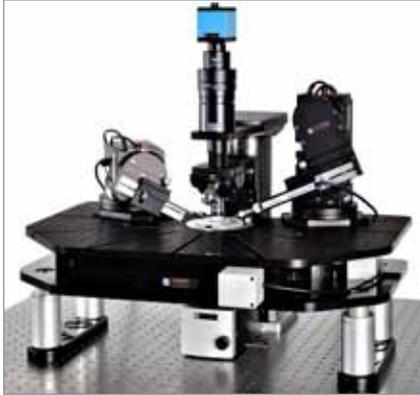
While all our equipment can be operated without connecting it to a PC, some users prefer to customise their systems. Each motorised Scientifica product includes the free Scientifica LinLab software. LinLab will allow you to set the speed and direction of movement, step sizes, positional display and memory positions.

You can accurately read approach angles from the manipulators, use the "Follow" function to virtually link the movement of multiple motorised products and take advantage of other unique capabilities.

Complete setups

SliceScope Pro 3000 & PatchPro 3000

Our 3000 systems cost-effectively integrate the MMTP into complete patch clamping solutions, with micromanipulators and control hardware.



SliceScope Pro 3000

Our SliceScope Pro Series has been developed by us in close collaboration with world leading researchers, to create a complete electrophysiology focused motorised microscopy system.

It provides a very stable, compact platform with outstanding Olympus optics for efficient, fully-motorised microscopy. The compact frame of the SliceScope allows further equipment to be easily mounted around your sample.

Advantages

Narrow profile enables more space for equipment around your sample

Motorised focus offers fine control

Motorised condenser control for optimal Koehler illumination

Compatible with a full range of accessories, light sources and contrasting techniques

Patch Pro 3000

The PatchPro systems are fully integrated patch clamping solutions that work in conjunction with fixed stage nosepiece focussing microscopes from Olympus, Zeiss, Nikon and Leica.

They allow the user to control manipulators, microscope platforms, microscope focus (where compatible) and temperature control all from two neat, simple user consoles.

Advantages

Future-proof modular system allowing you to add or subtract equipment at a later date

Compatibility guaranteed for peace-of-mind and trouble free operation

Fully upgradeable software control and customisation

LinLab Follow function for faster sample navigation

Technical Specifications

Specifications	
X Travel:	25 mm
Y Travel:	25 mm
Electronic Resolution:	20 nm
Chamber Adaptors Accepted:	108 mm & 110 mm
Weight:	25kg
Top Plate Material:	Anodised aluminium
Leg Material:	Anodised aluminium

Ordering Information

Product Option	Order number
MMTP Only (Metric Carriages)	MMTP-3000-00
MMTP Only (English Carriages)	MMTP-3000-50
MMTP with Z focus module (Metric Carriages)	MMTP-3100-00
MMTP with Z focus module (English Carriages)	MMTP-3100-50

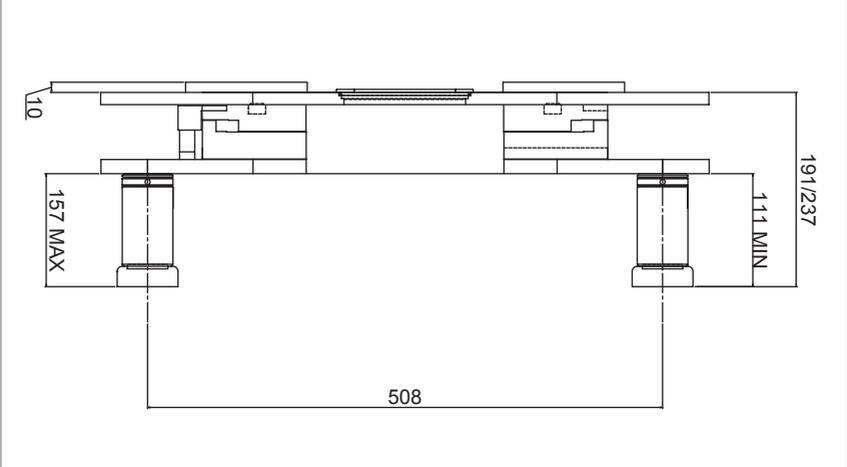
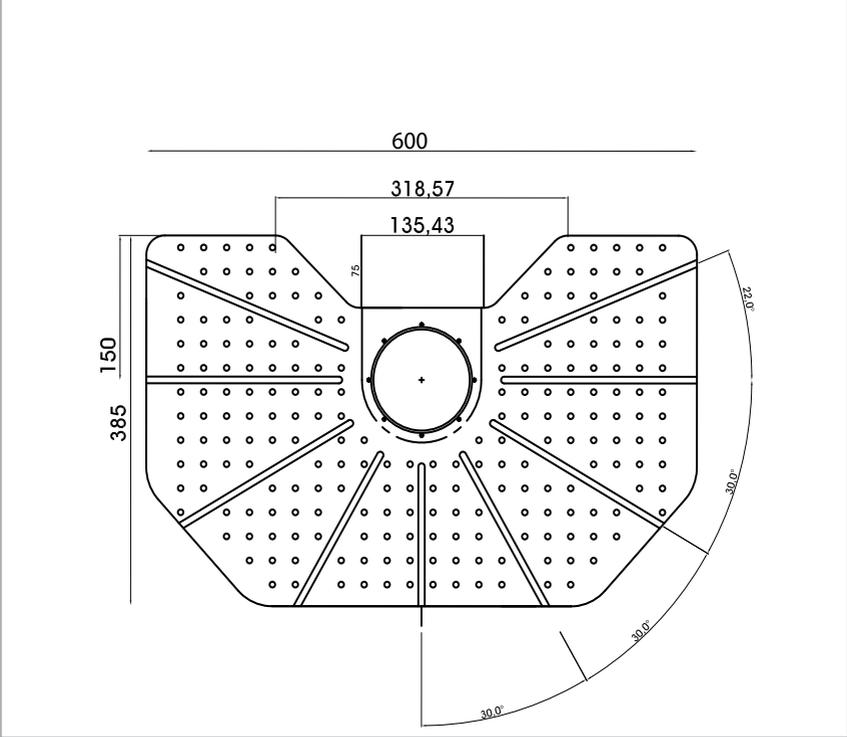
All MMTPs include the following as standard: 3 mounting carriages, slice recording chamber kit (containing 2 bath plate tools, cover slips, bath chamber, ferromagnetic ring & RTV sealant), 1U control rack and Linlab software for Microsoft Windows (with all future updates).

These order numbers should be appended with the following codes to designate your choice of control option:

C = Control Cube
 J = JoyStick
 P = PatchPad
 PT = PatchPad Touch

Please speak to a member of our product specialist team if you need assistance in selecting the most appropriate equipment for your requirements.

Schematics (mm)

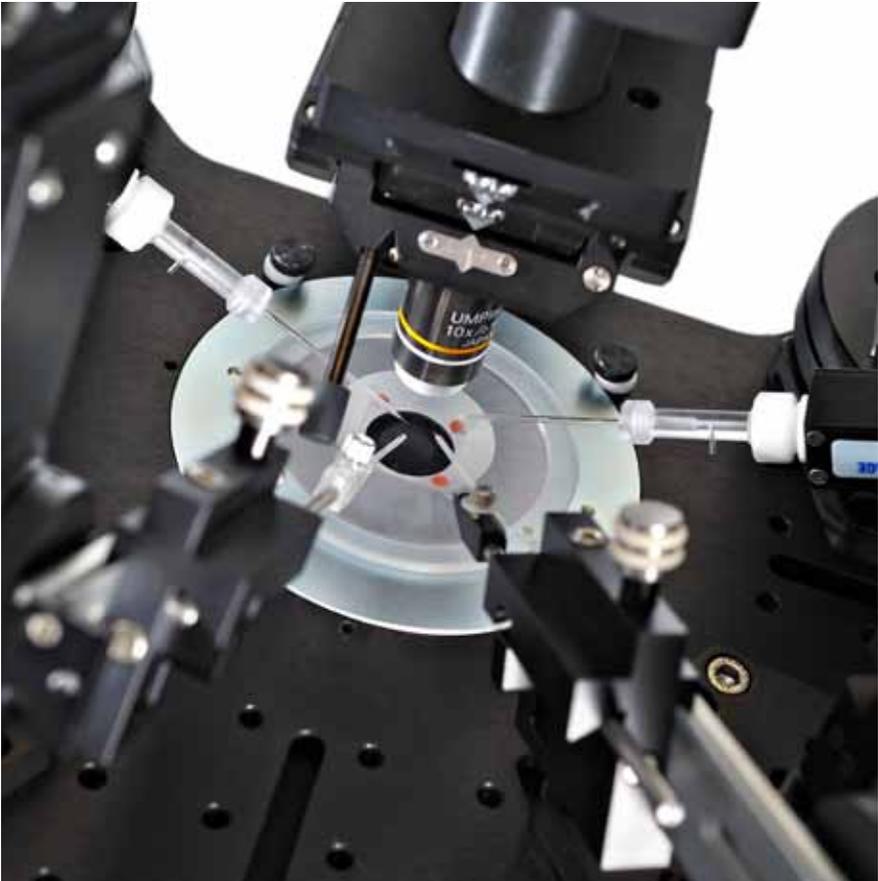


Warranty

Scientifica's success is founded on supplying superior support and application of our significant manufacturing experience. We would therefore really value the opportunity to understand your applications better and to offer no obligation advice on equipment, configurations and compatibility.

All Scientifica instruments are sold with a two-year warranty giving you complete peace of mind. This covers all defects in manufacturing and materials. In this unlikely event, Scientifica will remedy either by repair or replacement.

Our team of customer support engineers is dedicated to providing you with the very best advice and support, should you experience any difficulties with our products. With all products we offer a complete installation support service.



A guide to Scientifica's mounting range

Movable Microscope



Universal Motorised Stage

OR



Manual XY Stage

+
One of the following
platform systems



SlicePlatform



Post & Platform



Inverted Fixed Platform

The Post & Platform, SlicePlatform and Inverted Fixed Platform are combined with our Universal Motorised Stage (UMS) for smooth microscope movement.

Fixed Microscope

Movable Top Plate



Movable Top Plate Motorised Movable Top Plate

Inverted Movable Top Plate



Inverted Movable Top Plate Inverted Motorised Movable Top Plate

Motorised Movable Base Plate



Complete Systems

All of the mounting options above are available as a package with Manipulators and a Microscope (either SliceScope or most major upright and inverted Microscopes) - a complete turnkey solution for your research.



Revision 1.2

Tel: +44(0)1825 749933
Fax: +44(0)1825 749934
Email: info@scientifica.uk.com
Web: www.scientifica.uk.com

SCIENTIFICA LTD
Kingfisher Court
Brambleside
Bellbrook Industrial Estate
Uckfield
East Sussex
TN22 1QQ
UK

Find out more about the Scientifica range of products and interviews on our channel, including a full demonstration of our MMTP.

www.youtube.com/scientificauk

Scan Me!



Distributed by



MEL: (03) 9480 4999
SYD: (02) 9705 8059
sales@scitech.com.au
www.scitech.com.au



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2012